

A Theoretical Scheme of the Circulation of the Air      SOV/2c-12c-2-16/63  
Above the Antarctic

continental air flows off, whereas in the upper layer the warmer maritime air is transported towards the continent. Wave-like disturbances are likely to occur on the interlayer of this circulation. Thus, the disturbance determine the weather in these regions. They also cause a number of peculiarities of thermal- and wind-conditions. The author gives a short survey of these disturbances. The determination of the wavelength of such waves as propagate on a circle in the interlayer is of particular importance, as these waves are nothing but mobile baric formations. The evidence collected in the Antarctic by the Soviet expedition and by foreign expeditions tends to show that the maximum wavelength of these waves approaches that of the mean radius of the basin. A deep and constant inversion was found to exist around the entire Antarctic region. The depth of this inversion reaches 25° in the interior of the Antarctic. It extends far into the ocean. The south-easterly winds predominating near the coast are weakened in the interior regions. The maximum velocities were also observed near the coast. The existence of transverse oscillations is proved by observational evidence. Within the scope of this paper thermal conclusions were compared with the observations of actual conditions

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A Theoretical Scheme of the Circulation of the Air      Sov/2c-11c-2-16/63  
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only with respect to some examples. The experimental evidence available, however, permits a considerable increase of the number of such examples. There are 2 figures and 2 Soviet references.

ASSOCIATION: Institut prikladnoy geofiziki Akademii nauk SSSR (Institute of Applied Geophysics AS USSR)

PRESENTED: January 30, 1958, by D.I.Sherbakov, Member, Academy of Sciences, USSR

SUBMITTED: January 29, 1958

1. Atmosphere--Antarctic region    2. Atmosphere--Motion    3. Atmosphere  
--Theory

Card 3/3

GUSEV, A.M.

805 / 806

Научная конференция по проблемам метеорологии Антарктиды: Материалы. Москва, 1959  
Печатается по распоряжению Института гидрометеорологии и гидрологии АН СССР

**E. G. FRITHS:** Tech. Ed.: I.M. Earth.  
**PURPOSE:** The publication is intended for meteorologists, particularly for those interested in the climatology of Antarctica.

**CONTENTS:** This book contains summaries of thirty-five reports presented at the Scientific Conference on Meteorological Problems in Agriculture, held in Moscow, October 26 to 28, 1959. The summaries are arranged in four groups: (1) general problems of the geography of agriculture; (2) atmospheric circulation; (3) radiation balance; (4) characteristics of climate and a special feature of individual elements; (5) methods of observation and measurement. No personal names are mentioned. There are no references.

BURKE, F. A. [Candidate of Physics and Mathematics, Geographical Institute (Central Forecasting Institute) and S.S. Shatalov (Candidate of Geographical Science, Glavmory upravlyayushchii nauchno-issledovatel'skii i nauchno-tekhnicheskii otdel'nost' nauchno-issledovatel'skogo instituta po issledovaniyam severa i srednei Azii). Main Features of Research in Antarctica

MARCH 1961

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 Tschirhart, O. M. [Doctor of Geophysical Sciences, Governmental Observatory University Cheb  
 Institute [Ter-Gomachov Institute] Climatic Circles in the Western Part of  
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 Dynamics of Air Circulation Over Antarctic

Budyko, S. I. [Professor, Doctor of Geographical Sciences, Moscow State University  
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Erdmann, O.G. (Geodetic or Geometrical Sciences, Geodetic Survey Institute [Central Forecasting Institute], Atmospheric Circulations in Antarctica and the Southern Hemispheric Atmosphere. Central Survey Geological Institute, Moscow, 1970-1971.

Georgy, B.G. [Candidate of Geological Sciences] Geology of the Southern Territories [Central Antarctic Observatory] Some Specimens  
Features of Circulation and Structure of the Atmosphere in Antarctica and  
the Central Arctic

**Development of Subarctic Alpine Vegetation  
in Relation to Processes Over Western Arctic**

1. Introduction

2. Methods

3. Results

4. Discussion

5. Summary

6. Acknowledgments

7. References

8. Author's Address

Гончаров, Г. В. [Городок для вынужденных переселенцев] Особые особенности климата и температуры в высокогорных районах Азии // Ученые записки Института гидрологии и геодинамики Академии наук СССР. Том 11. № 1. 1956.

Shayevich, V.M. (Professor, Doctor of Geophysical Sciences, Institute of Geophysical Research, Institute of Geodesy and Meteorological Institute) -  
Study of Seismic-Planetary Circulation by Means of Meteorological  
Characteristics

## Some Special Problems of the Reptiles of the Antarctic

GUSEV, A. M.

(6)

PAGE I BOOK INFORMATION 507/5066

Moschayaya konferentsiya po problemam meteorologii Antarktiki, Moscow, 1959  
Vsesoyuznyi doklador [theses of Reports at the Scientific Conference on Meteorological  
Problems in Antarctica, Moscow, 1959] Moscow, Glavnaya geofizicheskaya  
(Obzry) 1959, 47 p., 1,000

Ed.: O.G. Ershov; Tech. Ed.: I.M. Zash.

PURPOSE: The publication is intended for meteorologists, particularly for those  
interested in the climatology of Antarctica.

CONTENTS: This book contains summaries of thirty-five reports presented at the  
Scientific Conference on Meteorological Problems in Antarctica, held in  
Moscow, October 26 to 30, 1959. The summaries are arranged in four groups:

(1) general problems of the geography of Antarctica; (2) climatic and special  
circulation; (3) radiation balance, heat balance, climate and special  
features of individual elements; (4) methods of observation and measurements.  
No personalities are mentioned. There are no references.

PAGE II. RADARON BALANCE, SNOW BALANCE, CLIMATE, AND  
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(1) GUSEV, A.M.

## PAGE I BOOK INFORMATION

807/9606

**Научная конференция по проблемам арктической Антарктики, Москва, 1959**  
**Труды конференции (Материалы и сообщения о научных проблемах Антарктики в СССР). - М.: Наука, 1959. - 177 с., 10,000 copies printed.**

**Eds.: O.G. Бричак; Г.И. М.; Т.М. Зарин.**

**ПРЕДИКТОР:** The publication is intended for meteorologists, particularly for those interested in the climatology of Antarctica.

**СОДЕРЖАНИЕ:** This book contains summaries of thirty-five reports presented at the Scientific Conference on Meteorological Problems in Antarctica, held in Moscow, October 20 to 25, 1959. The summaries are arranged in four groups: (1) general problems of the Antarctic; (2) atmospheric circulation; (3) radiation balance, heat balance, climate and special features of individual elements; (4) methods of observation and measurement. No personalities are mentioned. There are no references.

**ПАРТ II. РАСПРЕДЕЛЕНИЕ, МАССЫ БАЛАНСА, КЛИМАТ, И ДР.**

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**Белов, В.А. [Кандидат физико-математических наук]** [Материалы и сообщения о географии Южного полушария] Методика измерения температуры льда снега на северном полюсе 58

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GUSEV, Aleksandr Mikhaylovich; KAMINSKAYA, N., red.; TROYANOVSKAYA, N.,  
tekhn.red.

[Attack on the sixth continent] Shturm shestogo kontinenta.  
Moskva, Gos.izd-vo polit.lit-ry, 1959. 102 p. (MIRA 12:8)  
(Antarctic regions)

(2665) v. 15, 17)

PAGE 1 BOOK EXPLOITATION

307/4339

Sovietkaya antarkticheskaya ekspeditsiya, 1955.

Pervaya kontinental'naya ekspeditsiya 1956-1957 godov nauchnye rezul'taty (First Continental Expedition, 1956-1957; Scientific results) Leningrad, Inter-

"Mashinostroyeniye", tom 2).

Sponsoring Agency: Arkticheskiy i antarkticheskii nauchno-issledovatel'skiy

Institut.

Ed.: K.N. Sosov, Doctor of Geographical Sciences; Tech. Ed.: I.P. Drobilina.

Purpose: This book is intended for polar specialists, geographers, geologists,

astronomists, and geophysicists.

Content: This book is Volume 2 of a multi-volume work containing scientific data collected by the First Soviet Continental Expedition to the Antarctic (1956-1957), sent out under the auspices of the Arkticheskiy i antarkticheskii nauchno-issledovatel'skiy institut (Arctic and Antarctic Scientific Research Institute) as part of the U.S.S.R. Program. The purpose of the expedition was to survey an area between 70° to 115° longitude and 69° to 70°S latitude (an area of about 1 million square kilometers), to develop methods and techniques for field studies applicable to local conditions, and to initiate a systematic study of the natural phenomena of the region. Groundatorial observations were conducted

in the more interesting areas around and between Point and Plateau, on the Shishkevich Ice Shelf, Bransfield Island, and a number of islands (Juniper, Davis, etc.). Geodetic, geophysical, and glaciological observations were made at the Mawson Observatory and at the Palmerdale and Davis research stations. No personal names are mentioned. There are no references.

Contributors: A.M. and I.P. Drobilina. Meteorological Characteristics of the Glacier

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AVAILABILITY: Library of Congress (6860-528)

3(3) PHASE I BOOK EXPLOITATION SOY/3223

Akademiya Nauk SSSR. Kompleksnaya antarkticheskaya ekspeditsiya  
Klimat Antarktiki (Climate of the Antarctic) (Series I, Teil 1, Meteorologiya i Klimatologiya). Private ship inserted. 1959. 285 p. (Series I, Teil 1, Meteorologiya i Klimatologiya). 4,000 copies printed.

Ed.: S. M. Kunkes; Tech. Ed.: S. M. Kosheleva; Editorial Board: V. P. Burtnikov, B. S. Dzardzeyevsky, Kh. P. Pogosyan, and G. K. Tuber.

PURPOSE: This book is intended for meteorologists and climatologists. It will also be of interest to all earth scientists concerned with the Antarctic region.

COVERAGE: This book contains 18 articles on the weather and climate of Antarctica. Articles represent the generalized results of processing data obtained by the Soviets during their expeditions to the Antarctic, 1955-1958. Individual authors have attempted to clarify and unify previously divergent views on Antarctic meteorological processes (zonal circulation, temperature distributions, cyclonic and anticyclonic movement, etc.). No personalities are mentioned. References accompany individual articles.

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AUTHOR: Gusev, A. M., Doctor of Physical and Mathematical Sciences SOV/30-59-7-7/50

TITLE: The Fourth Antarctic Expedition (Chetvertaya Antarkticheskaya ekspeditsiya). The Results of the First Part of the Work (Rezul'taty pervogo etapa rabot)

PERIODICAL: Vestnik Akademii nauk SSSR, 1959, Nr 7, pp 43 - 51 (USSR)

ABSTRACT: At the end of 1958 the expedition left for the Antarctica on two ships ("Ob'" and "Mikhail Kalinin"). Among other things, the expedition planned a tractor sleigh ride following the route Mirnyy-geomagnetic pole - southern geographical pole - "pole of the relative inaccessibility". Work is planned to be carried out at Mirnyy, at the station Vostok, and at the Soviet station Lazarev which is to be newly established at long. $12^{\circ}$  E. (called after one of the first Russian explorers of the Antarctica, M. P. Lazarev). There is a high and longstretched mountain ridge about 100 km south of the coast which is to be investigated with regard to mineral resources. At Gdynya the ship "M. Kalinin" took a group of Polish scientists on board who then take over the Antarctic station Oazis from the USSR in order to carry out investigations there. Both ships landed ✓

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The Fourth Antarctic Expedition. The Results of the      SOV/30-59-7-7/50  
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on January 21 near Mirnyy. From there planes took the Polish scientists to the Scott Glacier and helicopters took them to the station Oazis where the first Polish station in the Antarctica was opened on January 23 under the name of the well known Polish geophysicist A. Dobrovolskiy . Relief investigations of the Antarctica, especially of the icecap in its eastern part were planned to be the task of the fourth Soviet Antarctic expedition. These investigations were carried out in planes (V. A. Bugayev, V. M. Perov) by various methods. The flight scheme was developed by the navigator B. S. Brodkin and is shown in figure 1. A new instrument was used for the determination of the absolute height of the icecap, and also a new method which was developed in the Institut prikladnoy geofiziki Akademii nauk SSSR (Institute of Applied Geophysics of the Academy of Sciences, USSR) by A. M. Gusev in cooperation with N. I. Lozovskiy, A. A. Gus'kov, and I. D. Orobinskiy, the measuring results are shown in figure 2 and then described in detail. A continuous recording of the total and reflected solar rays was conducted by V. I. Shlyakhov by means of an electronic oscilloscope. The investigation results achieved by means of

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The Fourth Antarctic Expedition. The Results of the SOV/30-59-7-7/50  
First Part of the Work

variometers are given by the table. Figure 3 shows land profiles of the areas Mirnyy - Pionerskaya. On January 30 both ships left the coast of the Antarctica, the ships "M. Kalinin" bound for Gdynya and the "Ob'" for the station called Lazarev. The two ships were in radio-communication with one another and exchanged information, with the geologist P. S. Voronov of the "Ob'" being specially mentioned. The new Soviet station Lazarev was established at lat. $69^{\circ}58'$  S. and long. $12^{\circ}55'$  E. on March 10. A group of geologists under the supervision of M. G. Ravich was flown into the mountains where they carried out investigations. During the winter 7 men were left at the station Lazarev. On the "Ob'" which then returned, there was also a group of hydrologists under the supervision of V. Kh. Buynitskiy. There are 3 figures and 1 table.

✓

Card 3/3

3.5100

23166

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A052/A129

AUTHORS: Gusev, A. M., and Rusin, N. P.

TITLE: Meteorological characteristic in the inner district of the Eastern Antarctic Region according to observations made at the station Pionerskaya

PERIODICAL: Referativnyy zhurnal Geografiya, no. 9, 1960, 62, abstract 23143 (V sb.: Klimat Antarktiki. Moscow, Geografiz, 1959, 102 - 109)

TEXT: The results of observations made at the station Pionerskaya during the period from May 1956 to February 1957 show the extreme severity of meteorological conditions of the high-mountain plateau of the Eastern Antarctic Region. Very low air temperatures (mean monthly temperatures of the warmest and the coldest month - December and August - are  $-21.5^{\circ}\text{C}$  and  $-51.3^{\circ}\text{C}$ , respectively), low atmospheric pressure (mean pressure is 689.2 millibars), lasting strong winds (mean wind speed is 10 m/sec), frequent snowstorms and snowfalls make living conditions very hard and heavily impede the work of land transport and aviation.

N. I. D.

[Abstractor's note: Complete translation]

Card 1/1

BUGAYEV, V.A., prof., otv. red.; SHUMSKIY, P.A., prof., red.; GUSEV, A.M.,  
prof., red.; LAPINA, I.Ya., red.; MEL'NIKOVA, N.B., red. izd-va;  
GOLUB', S.P., tekhn. red.

[Antarctica; reports of the commission] Antarktika; doklady komissii  
1960. Moskva, Izd-vo Akad.nauk SSSR, 1961. 85 p. (MIRA 14:12)

1. Akademiya nauk SSSR. Mezhvedomstvennaya komissiya po izucheniyu  
Antarktiki.

(Antarctic regions)

GUSEV, Aleksandr Mikhaylovich, prof., doktor fiz.-matem.nauk; SICHERBAKOV,  
D.I., akademik, otd.red.; SUZYUMOV, Ye.M., red.izd-vs; GUSEVA, A.P.,  
tekhn.red.

[In the snows of the Antarctic] V snegakh Antarktidy. Moskva,  
Izd-vo Akad.nauk SSSR, 1961. 189 p. (MIRA 14:4)

1. Nachal'nik antarkticheskoy stantsii Pionerskaya (for Gusev).  
(Antarctic regions)

GUSEV, A.M., doktor fiz.-matem.nauk, otv.red.; KAZAKOV, S.P., kand.  
tekhn.nauk, red.; BONCHKOVSKAYA, T.V., kand.fiz.-matem.nauk, red.;  
KALININA, N.K., red.; FEL'ZENBAUM, A.I., red.izd-va; POLENOVA, T.P.,  
tekhn.red.

[Modeling of atmospheric and hydrospheric phenomena] Medelirovaniye  
iavlenii v atmosfere i gidrosfere; trudy. Moskva, Izd-vo Akad.nauk  
SSSR, 1962. 183 p. (MIRA 16:1)

1. Mezhdromstvennaya konferentsiya. 1st, 1960. 2. Institut  
prikladnoy geofiziki AN SSSR (for Gusev, Bonchkovskaya).  
(Meteorological research) (Hydrology--Research)

ARTEN'IOVA, N.Ye.; GUS'KOV, A.M.; RYAZANOV, N.I.

Some new methods for predicting a Novorossiysk bora. Izv. AN SSSR.  
Ser. geofiz. no.6:811-822 Je '62. (MIRA 15:6)

1. Akademiya nauk SSSR, Institut prikladnoy geofiziki.  
(Weather forecasting) (Novorossiysk-Bora)

S/030/62/000/011/005/005  
D218/D308

AUTHOR: Gusev, A.N., Doctor of Physical and  
Mathematical Sciences

TITLE : Problems in influencing meteorological  
processes

PERIODICAL: Akademiya nauk SSSR. Vestnik. no. 11,  
1962, 135 - 136

TEXT: A conference on the transformation of  
climate was held on June 11-13 in Leningrad. The following  
institutions participated in the conference: Glavnaya geo-  
fizicheskaya observatoriya im. A.I. Voyeykova (Main Astro-  
nomical Observatory im. A.I. Voyeykov), Institut Geografii  
AN SSSR (Institute of Geography AS USSR), Institut Fiziki  
atmosfery AN SSSR (Institute of Physics of the Atmosphere  
AS USSR), and Institut Prikladnoy geofiziki AN SSSR (Insti-  
tute of Applied Geophysics AS USSR). A total of 16 papers  
were read to the conference, among them the following: V.Ya

Card 1/3

S/030/62/000/011/005/005

D218/D308

Problems in influencing ...

Nikandrov reviewed methods of influencing the weather, clouds, precipitation and other small scale processes. M. Ye. Berlyand considered the prevention of frost damage to plants. N.K. Klyukin discussed the liquidation or the retention of snow cover as a means of affecting the climate. D.L. Laykhtman reported studies of radiation balance as a factor in meteorological changes. M.I. Yudin gave an account of possible methods of mechanically influencing air masses. M.I. Budyko, L.R. Rakipov, M.Ye Berlyand and O.A. Drozdov discussed a method whereby the climate might be improved by melting down the polar icecap. N.I. Vul'fson and A.V. Kondratov discussed the relation between meteorological conditions in the southeastern region of the European part of the Soviet Union and circulation processes in North Africa. M.P. Timofeyev discussed the effect of artificial water reservoirs on the micro-climate of a region. A.P. Gal'tsov described a scheme for relating climate to natural landscape. A.M. Obukhov considered the forecasting of atmospheric phenomena. A.M. Gusev reported on the development of a physical model of climate which

Card 2/3

Problems in influencing ...

S/030/62/000/011/005/005  
D218/D308

was being carried out at the Institute of Applied Geophysics.  
The resolution of the conference approved existing investiga-  
tions and recommended their expansion.

Card 3/3

GUSEV, A.M., doktor fiz.-matem.nauk

Problems in influencing metereological processes. Vest.  
AN SSSR 32 no.11:135-136 N '62. (MIRA 15:11)  
(Weather control)

GUSEV, A.N., otv. red.

[Studies on heat exchange in the atmosphere] Issledovaniia teploobmena v atmosfere. Moskva, Nauka, 1964. 94 p.  
(Nika 17:8)

1. Akademiya nauk SSSR. Institut prikladnoy geofiziki.

BUGAYEV, V.A., prof., otv. red.; SHUMSKIY, P.A., prof., red.;  
GUSEV, A.M., prof., red.; LAPINA, I.Ya., red.

[Antarctics; reports of the Commission, 1963] Antarktika;  
doklady komissii, 1963. Moskva, Nauka, 1964. 174 p.  
(MIRA 17:11)

1. Akademiya nauk SSSR. Mezhdunodomstvennaya komissiya po  
izucheniyu Antarktiki.

BUGAYEV, V.A., prof., sviz. red., MUMBERY, G.V., prof., mch.,  
GUZEV, A.M., prof., sviz. LAFINOV, I.Ya., mch.

[The Antarctic reports of the Commission, 1964] Antarktika;  
doklady komissii, 1964. Moskva, Nauka, 1965. (M.G. 18.11)

L 01939-67 EAT(1) OM/GD  
ACC NR: AT6028286

SOURCE CODE: UR/0000/64/000/000/0003/0016

AUTHOR: Gusev, A. M.

ORG: none

TITLE: A contribution to the problem of changing the climate ✓

SOURCE: AN SSSR. Institut prikladnoy geofiziki. Issledovaniya teploobmena v atmosfere (Investigations of heat exchange in the atmosphere). Moscow, Izd-vo Nauka, 1964, 3-16

TOPIC TAGS: climate, climate control, heat transfer equation, approximation method

ABSTRACT: This article discusses the possible means of effecting climatic changes of various regions of the earth. Primary attention is focused on the equation of heat transfer which, in spherical coordinates, is written as:

$$\frac{1}{r^2} \frac{\partial}{\partial r} \left( r^2 K_1 \frac{\partial T}{\partial r} \right) + \frac{1}{r \sin \theta} \left[ \frac{\partial}{\partial \theta} \left( \frac{\sin \theta}{r} K_2 \frac{\partial T}{\partial \theta} \right) + \frac{\partial}{\partial \psi} \left( \frac{K_3}{r \sin \theta} \frac{\partial T}{\partial \psi} \right) \right] + E = 0, \quad (1)$$

where T is air temperature; K is the coefficient of turbulent heat conductivity; E is the source or discharge of heat (K and E are given functions of the spherical co-  
Card 1/3

UDC: 523.58

L 01939-67 E.M(1)/UN/GD  
ACC NR: AT6028286

ordinates). The unknown function here is temperature, the others play an auxiliary role. This equation can be solved on an electrical integrator specially adapted to solve such equations. When this equation is solved it will be possible to solve the two following problems which pertain to the matter of possibly changing the climate of the earth: 1) the new value of the air temperature will be determined from the given new value of the temperature of the subjacent surface and 2) from the given new distribution of the air temperature, the distribution of the temperature of the subjacent surface is determined. In this manner it will be possible to obtain a very approximate but physically substantiated method of estimating possible natural and artificial changes of one of the basic characteristics of the earth's climate. In estimating the role of the subjacent surface when developing the basic outlines of climate, three main types of surfaces should be distinguished: the surface of ordinary continents, the surface of seas and oceans, and the surface of large glaciations. The effect of these three types of surfaces on climate is dissimilar, the difference being explained by the characteristics of the internal thermal and dynamic conditions of oceans, thermal conditions of the strata of continents and glaciations, and the characteristics of the distribution of solar heat incident on the surface between two media: continents and the atmosphere, ice and the atmosphere, oceanic waters and the atmosphere. These characteristics depend upon physical properties and physical constants of these media: fluidity, heat capacity and conductivity, and the capacity to absorb and reflect solar radiation. A radical change of the climate will probably be accomplished most effectively by changing in some manner the temperature of the subjacent surface of the oceans, i.e., by changing the currents or by changing the radiation balance on the surface of large glaciations. However,

Card 2/3

L 04939-67  
ACC NR: AT6028286

at this point it is impossible to assert that this is the only and best way. It is possible that the effects brought about in this manner will be insufficient for a desirable change of climate. If this is the case then other methods must be enlisted. It is possible that in certain regions of continents, especially those far from the sea, it will be better to attempt to change the climate by changing the radiation balance on its surface. The problem of the technical possibility of changing the climate and the economic aspect of the problem are completely ignored for the present.

SUB CODE: 04/ SUBM DATE: 24Jun64/ ORIG REF: 007/ OTH REF: 002

kh

Card 3/3

ACC NR: AP7008925

SOURCE CODE: UR/0026/66/000/010/0062/0066

AUTHOR: Gusev, A. M. (Professor)

ORG: Moscow State University im. M. B. Lomonosov (Moskovskiy gosudarstvennyy universitet)

TITLE: Air circulation over antarctica

SOURCE: Priroda, no. 10, 1966, 62-66

TOPIC TAGS: atmospheric circulation, wind velocity, cyclone

SUB CODE: 04

ABSTRACT:

Only limited aspects of the complex problem of air circulation over Antarctica are considered in this brief article in Priroda which accompanies three other feature articles on that continent. Emphasis is on such distinctive characteristics as the high wind velocities and the two-layered character of air flow. Around the continent there is a continuous movement of chains of low-pressure areas separated by high-pressure ridges and in some cases segments of fronts. Two-layered circulation with a southeasterly cold air flow in the lower layer and a northwesterly counterflow in the upper layer arises as a result of convection over the continents and surrounding oceans. There are in fact two or three chains of cyclones. Two of them are formed on a surface situated over Antarctica. In contrast to the outer chain, the inner chain is fixed in position. The cyclones forming it usually are not separated by fronts. The velocity of the upper flow at a sufficiently great distance from the shore of the continent is greater than the

Card 1/2

UDC: 912(99)

0929 1745

ACC NR: AP7008925

velocity of the lower flow; the upper flow has an important westerly component. Along the coast the velocities of the upper and lower flows are close in magnitude and they are almost opposite in direction. The same relation holds true for the velocity of movement of waves along the discontinuity and for the velocity of the lower flow; as a result, the waves appear to be fixed relative to the earth's surface. This accounts for the singular "standing waves" around the coasts of Antarctica in the form of a circular chain of fixed cyclones.

Orig. art. has: 4 figures. [JPRS: 39,718]

Card 2/2

GUSEV, A.N.; ZARUBIN, S.S.; BOGDANOV, I.I.

Press for the semiautomatic upsetting of bolt heads. Kuz.-shtam.  
proizv. 5 no.5:32-38 My '63. (MIRA 16:9)

KISEL'GOF, S.M.; KATIKHIN, V.R.; GUSEV, A.N.; PRISYAZHNYUK, A.S.;  
KOZLOVA, D.F.; BEREZKINA, M.Ye.

Paleozoic waters of Volgograd Province. Trudy VNIING no.1:  
191-224 '62. (MIRA 16:10)

COUNTRY : USSR  
CATEGORY : Farm Animals.  
          : Cattle.  
AB3 . JOUR. : RZhBiol., No. 6, 1959, No. 25824 Q  
  
AUTHOR : Gusev, A. N.  
INST. : Izhevsk Institute of Agriculture.  
TITLE : The Influence of the Ration's Feed Composition  
          upon the Changes of the Milk's Fat Content in  
          Cows.  
ORIG. PUB. : V sb.: Materialy nauchn. konferentsiy (Izhev-  
              skiy s.-kh. in-t). Vyp. 2, Izhevsk. 1958,\*  
ABSTRACT : In the first experiment the influence of feed-  
          ing green mass and vetch upon the milk's  
          yield and fat content were investigated. When  
          the corn's green mass was substituted by the  
          vetch's green mass in the ration, a reduction  
          of the milk's fat content and a somewhat higher  
          milk yield were produced, while when the vetch's  
          green mass was substituted by the corn's green  
          mass, a somewhat higher milk yield, an increase  
          of the milk's fat content and an increase of milk

CARD:

1/3

\*141-146

27

COUNTRY : USSR  
CATEGORY :

ABS. JOUR. : RZhBiol., No. 1959, No.

AUTHOR :  
V.S. :  
A.I. :

ORIG. PUB. :

ABSTRACT : fat in the milk yield resulted. The second experiment was carried out during the stall period and its aim was to investigate the influences of corn silage and a potato-beet ration. When potato was partly replaced by corn silage and forage beet was completely excluded from the ration, a decrease of milk yield, of fat content, and of the quantity of milk fat in the collected milk occurred. When corn silage was replaced by potato and forage beet, a greater decrease of the milk's yield, fat

Card: 2/3

COUNTRY : USSR  
CATEGORY :

ABS. JOUR. : RZhBiol., No. 1959, No.

AUTHOR :  
LIST. :  
TITLE :

ORIG. PUB. :

ABSTRACT : content and quantity of milk fat took place  
than in the first replacement. --- K. Ya. Tara-  
sova

CARD: 3/3

GUSEV, A. N.

(DECEASED)

1963/2

c' 1962

Papermaking MACHINES

see ILC

GUSEV, A.P.; DURYSHIN, G.K.

Automatic proportioning of blended coal charge components. Koks i  
khim. no.5:9-12 '56. (MIRA 9:10)  
(Coal preparation) (Automatic control)

TSYNOVNIKOV, A.S.; MUSTAFIN, F.A.; GUSEV, A.P.

Preparation of coals and blended coal charges for coking. Koke i  
khim. no8:10-12 '56. (MLRA 10:1)

1. Vostochnyy uglekhimicheskiy institut (for TSYNOVNIKOV). 2. Nizhne-  
Tagil'skiy koksokhimicheskiy zavod.  
(Coal preparation)

BULIS, Yu.Yu., inzh.; GUSEV, A.P., inzh.; RUZHANSKIY, S.D., inzh.

Pickup for signaling the presence of materials on conveyor belts.  
Mikh.1 avtom.proizv. 16 no.5:23-24 '62

(Transducers)

(MIRA 16:5)  
(Conveying machinery)

GUSEV, Aleksandr Semenovich; KUZIN, Roman Petrovich; POPOV, Andrey  
Dmitriyevich; DUGINA, N.A., tekhnicheskiy redaktor

[Reducing metal loss in riser heads] Snizhenie raskhoda metalla  
na pribyli otlivok. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit.  
lit-ry, 1956. 26 p.  
(Founding) (MLRA 10:5)

SCV/91-58-12-17/2C

AUTHORS: Averbakh, Yu.A., Gusev, A.S., Cerashchenko, A.I., Engineers

TITLE: The Reconstruction of the LMZ AK-25-1 (TN-165) Turbine  
(Rekonstruktsiya turbiny LMZ AK-25-1 (TN-165))

PERIODICAL: Energetik, 1958, Nr 12, pp 27-29 (USSR)

ABSTRACT: The following improvements have been introduced into the LMZ AK-25-1 turbines. The steam-pass section of the high-pressure cylinder has been reconstructed. The console thrust bearing has been replaced by a combined journal-thrust bearing. The hydraulic end-sealing has been replaced by steam sealing (pressure 1.2 to 1.5 atm). There are 2 variations of the reconstructed steam-pass section of the turbine. One maintains steam bypass, the other eliminates it. The reconstructed turbines work more reliably and economically. Heat consumption dropped 3 to 5 % at a 21,000 to 25,000 kW output, which is equal to a 3,000 ton fuel economy yearly. The entire reconstruction work was done by the Khar'kov branch of the Central Constructor's Bureau attached to the Glavenergoremont of the MES in 1954-55. There are 3 diagrams.

Card 1/1

YAN, V.M., inzh.; LAFIN, A.L., inzh.; GOLOKOV, ..., inzh.; GOREV, A.A., inzh.;  
MAYOROVA, TS. ..., inzh.; SHILAKINA, N.N., inzh.; ..., inzh.

Developing an experimental 1,000 ton hydraulic press for the pressing  
of 300 mm.-high refractory products. Trudy Inst. ogneupor. no.34:141-163  
'63. (MIRA 17:10)

1. Vsesoyuznyy institut ogneuporov (for Shmakina). 2. Trest "Ogneupornerud"  
(for Gusev).

GUSEV, A.S.

Functional characteristics of the medullated fibers of the splanchnic nerves [with summary in English]. Biul.eksp.biol. i med. 43 no.1: 108-113 Ja '57. (MLRA 10:8)

1. Iz kafedry normal'noy anatomi (nach. - chlen-korrespondnet AMN SSSR prof. B.A.Dolgo-Saburov) i normal'noy fiziologii (nach. - prof. I.T.Kurtain) Vojenno-meditsinskoy ordena Lenina akademii imeni S.M. Kirova, Leningrad. Prestavlena deystvitel'nym chlenom AMN SSSR. V.N.Chernigovskim.

(SYMPATHETIC NERVOUS SYSTEM, physiology,  
splanchnic nerve, medullated fibers (Rus))

GUSEV, A.S.

"Problems in the morphology of the peripheral nervous system."  
Reviewed by A.S.Gusev. Arkh.anat.gist. i embr. 35 no.1:123-124  
Ja-F '58. (MIRA 11:4)

1. Adres avtora: Leningrad, ul. Lebedeva, 37, kafedra normal'noy  
anatomii Voyenno-meditsinskoy ordena Lenina akademii im. S.M.Kirova.  
(NERVOUS SYSTEM)

GUSEV, A.S. (Leningrad, K-9, Botkinskaya ul., d. 19, lv. 106)

Dendrite-vascular connections in the cerebral cortex [with summary  
in English]. Arkh.anat. glist. i embr. 35 no.4:51-55 Jl-Ag '58  
(MIRA 11:10)

I.: Kafedra normal'noy anatomii (nach. chl.-kor. AMN SSSR prof.  
B.A. Dolgo-Saburov) Voyenno-meditsinskoy ordena Lenina akademii  
imeni S.M. Kirova.

(CEREBRAL CORTEX, anat. & histol.  
dendrite-vasc. connections (Rus))

GUSEV, A.S. (Leningrad, Sotsialisticheskaya ul., 8, kv.7); SHCHELKUNOVA,  
T.N. (Leningrad, ul. prof. Popova, 41/5, kv.63)

G.V. Shor's method for the preparation of some anatomical preparations  
for teaching purposes. Arkh.anat.gist.i embr. 37 no.11:  
109-113 N '59. (MIRA 13:4)

1. Kafedra normal'noy anatomii (nachal'nik - chlen-korrespondent  
prof. B.A. Dolgo-Saburov) Voyenno-meditsinskoy ordena Lenina aka-  
demii im. S.M. Kirova.  
(ANATOMY)

L 45.04-65 EWT(d)/EPA(s)-2/EWT(m)/EWA(d)/EWP(v)/T/EWP(t)/EWP(d)/EWP(h)/EWP(b)/  
EWP(1)/EWA(c) Pf-4 JD/HM  
ACCESSION NR: AP5010894

UR/0256/65/CC/007/0032/0033

AUTHORS: Slavin, G. A.; Gusev, A. T.; Korotkova, G. M.; Filippov, M. A.,  
Petrov, A. V.

TITLE: Device for welding with a pulsed arc, Class 21, No. 16,716

SOURCE: Byulleten' izobretений i tovarnykh znakov, no. 7, 1965, 82-83

TOPIC TAGS: welding equipment, arc welding

ABSTRACT: This Author Certificate presents a device for welding with a pulsed arc. It contains an oscillator and a source of a pulsed operating arc and is provided with a welding transformer and a chopper, e.g., a thyratron. To increase the quality of the welded joint, a regulated supply of the on-duty arc is used, e.g., containing a transformer, a rectifier, and a potentiometer. The supply is connected to the welding electrodes in parallel with the pulsed arc source (see Fig. 1 on the Enclosure). To improve the pulse shape of the welding current, the pulsed operating arc source is provided with a four-winding saturation choke. The operating winding of this choke is made of two windings connected in opposition and is connected in series with the secondary of the welding transformer. The control winding of the choke is connected to the chopper, and the positive current

Card 1/3

L 45104-65

ACCESSION NR: AP5010894

feedback is connected in series in the electrode-product circuit. Orig. art. has 1 diagram.

ASSOCIATION: none

SUBMITTED: 18Jul62

INCL: 01

SUB CODES: IE, MM

NO NEW Sov: 000

OTHER: 000

Card 2/3

GUSEV, A. V.

USSR/Engineering - Foundry, Operations

Nov 51

"Practice of Gray Iron Foundry at Moscow Automobile  
Plant imeni Stalin," A. V. Gusev, Engr

"Litey Proizvod" No 11, pp 22-24

For recent years foundry increased operating ef-  
ficiency by 75%, considerably improved quality of  
castings and decreased rejection. Introduced 275  
changes in design of castings and 2375 measures for  
improving casting technology into foundry practice.  
Presents 11 examples of such improvements in illus-  
trations. Discusses procedure of production control.

198T17

GUSEV, A.V.

TJ1160.A34

TREASURE ISLAND BOOK REVIEW

AID 863 - S

GUSEV, A. V.  
OPYT KOMPLEKSNYKH BRIGAD LITEYNYKH TSEKHOV PO EKONOMII METALLA (Experience  
of the Foundry "Complex Brigades" in more Efficient Use of Metal). In  
Akademiya Nauk SSSR. Peredovoy opyt novatorov mashinostroyeniya (Progressive  
Experience of Leading Men in the Machine-Building Industry) 1954. Part II:  
Peredovaya tekhnologiya liteynogo proizvodstva, obrabotki davleniyem i svarki  
(Advanced Technique in Foundry Casting, Metal Pressing, and Welding).  
p. 157-169.

The author describes various methods for saving metal in the casting of  
automotive parts as the Moscow Automobile Plant im. Stalin practiced by the  
foundry by selected groups, the "complex brigades". Over 750 tons of metal  
were saved in 4 months of 1952 and an additional 1,000 tons was saved by  
ways proposed by the foundry brigades. The pouring equipment was modified,  
casting allowances and weight of the castings themselves were reduced wherever  
possible and the quality of each casting operation was raised. Additional  
savings were obtained in auxiliary treatment, such as shot peening (in which  
several hundred tons of shot were saved during the year). The use of non-  
ferrous metals was spared wherever possible by their replacement with ferrous  
metals. Thirteen drawings illustrate the text.

1/1

12(2)

SOV/113-59-7-1/19

AUTHOR: Gusev, A.V.

TITLE: Changing to a Seven-Hour Work Day at the Foundry

PERIODICAL: Avtomobil'naya promyshlennost', 1959, Nr 7, pp 1-3  
(USSR)

ABSTRACT: One of the foundries of the Moscow Automobile Plant imeni Likhachev is operated on a seven-hour work schedule. The transition to a seven-hour work day was accompanied by a productivity increase. New equipment was introduced for more perfect technological processes. Work planning and work conditions were improved. Production losses were reduced. The qualifications of the engineers and workers were increased. In 1958, most of the molding conveyers received multi-model equipment, which in turn required a number of additional changes on the other foundry equipment for providing an equal production increase.

Card 1/2

SOV/113-59-7-1/19

Changing to a Seven-Hour Work Day at the Foundry

The types of mold boards used, the metal pouring system and the way of preparing the molds were improved. Introducing an hourly work graph reduced the amount of rejects in core making by 20-25%. Other improvements in efficiency were achieved by a better distribution of workers. The productivity of workers was increased by 5-7% by installing fans which removed the gases escaping from molds during drying. During the past two years, more than 700 suggestions for improvements were submitted by employees and introduced, resulting in a saving of 2,500,000 rubles.

ASSOCIATION: Moskovskiy avtozavod imeni Likhacheva (Moscow Automobile Plant imeni Likhachev)

Card 2/2

GUSEV, A. V., Candidate Agric Sci (diss) -- "Experience in the accelerated development of meadows on the kolkhoz 'put' k kommunizmu", Noginskiy Rayon, Moscow Oblast". Moscow, 1959. 21 pp (Moscow Order of Lenin Agric Acad im K. A. Timiryazev), 110 copies (KL, No 25, 1959, 137)

GUSEV, A. V.

"Parasitic Copepoda of Some Sea Fishes," Paraz. abor., No.13, 1951

Div. Parasitology, Zool. Inst., AS USSR

GUSEV, A.V.

Monogenetic trematoda of fishes of the Volga River. Paraz.sbor. 14:164-  
180 '52. (MLRA 6:6)

1. Zoologicheskiy institut Akademii Nauk SSSR. (Parasites--Fishes)  
(Volga River--Trematoda)

GUSEV, A. V.

"Monogenetic Trematodes of Fish of the Amur River System. Cand  
Biol Sci, Inst of Zoology, Acad Sci USSR, Leningrad, 1953. (ZhBiol,  
No 1, Sep 54)

SO: Sum 432, 29 Mar 55

GUSEV, A.V.

Materials on monogenetic trematoda of fishes of the Amur River.  
(MLRA 7:5)  
Trudy Zool.inst. 13:127-136 '53.  
(Parasites--Fishes) (Amur River--Trematoda) (Trematoda--Amur River)

GUSEV, A.V.

New parasitic fauna of animals. Priroda 42 no.9:120 S '53. (MLRA 6:8)

1. Zoologicheskiy institut Akademii nauk SSSR. (Parasites--Fishes)

GUSEV, A.V.

Monogenetic trematodes of fishes in the Amur River system. Trudy  
Zool.inst. 19:171-398 '55. (MLRA 9:1)  
(Amur River--Trematoda) (Parasites--Fishes)

BYKHOVSKIY, B.Ye.; GUSEV, A.V.

Data on the study of monogenetic trematodes having primitive  
hooks. Trudy Zool.inst. 21:110-118 '55. (MLRA 9:5)  
(Trematoda)

GUSEV, A.V.

New species of monogenetic trematodes from gills of the *Squaliobarbus curriculus* (Richardson) from Chinese rivers. Trudy Zool.inst. 21: 119-124 '55. (MLRA 9:5)

(Parasites--Carp) (China--Trematoda)

GUSEV, A.V.

Ancyrocephalus (s.l.) van Benedenii (Parona et Perugia) (Monogenea)  
idea) and its geographical occurrence. Zool. zhur. 34 no. 2:291-294  
Mr-Ap '55. (MLRA 8:6)

1. Zoologicheskiy institut Akademii nauk SSSR.  
(Trematoda)

SOV/124-58-11-12230

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 11, p 38 (USSR)

AUTHORS: Bogorodskiy, V. V., Gusev, A. V.

TITLE: Use of Ultrasonic Vibrations in Hydrological Investigations  
(Primeneniye ul'trazvukovykh kolebaniy dlya gidrologicheskikh  
issledovaniy)

PERIODICAL: V sb.: Probl. Arktiki. Nr 3. Leningrad. "Morsk. transport", 1958,  
pp 69-78

ABSTRACT: Described briefly are several methods for determining the speed of sound in liquids: the interferometer method, the pulse method, and the phase method. To eliminate the factor of ambiguity from results obtained when the phase method is used to determine the speed of sound in the sea, the authors propose a combination pulse-phase method. A short account is given also of a phase-type gage for measuring the speed of currents. The authors recommend that ultrasonic-wave methods be used, for example, to study the underside of ice covers and for other types of hydrological investigation.  
L. K. Zaremba

Card 1/1

GUSEV, A.V., kand.biol.nauk

Parasitological research in the Antarctic. Inform.biul.Sov.  
antark.eksp. no.3:71-72 '58. (MIRA 12:4)

1. Zoologicheskiy institut AN SSSR.  
(Antarctic regions--Parasites)

SYNOPSIS: This book is intended for natural and earth scientists interested in the research activities of the diesel-electric ship "Dra" in the Antarctic. It is of particular interest to marine biologists, mineralogists, and geophysicists.

CONTENTS: This issue of the Information Bulletin on the Soviet Antarctic Expedition reports on the fauna found in various regions of the Southern Hemisphere, the hydrology and hydrochemistry of Antarctic and Subarctic waters, and the geomorphology of the Antarctic shelf. The reports were read at the First Conference on the Study of Antarctica's Marine Fauna in December 1958. No references are given.

G

USSR

Abs Jour : Ref Zinur - Biologiya, No 22, 1958, No 99537

Author : Gugey, A.V.

Inst : Institute of Oceanology of the Academy of Sciences \*

Title : Parasitological Investigation of Some Deep-Sea Fish in

the Pacific Ocean.

Orig Pub : Tr. In-ta okeanol.AN.SSSR, 1958,27,362-366

Abstract : Parasitological investigation of the following five species of deep-sea (in depths of 800-7,000 m) fish, viz., Cyclothona microdon, Gonostoma witjasi, Lampanictus nanochir laticauda, Chauliodes sp. (bathypelagic) and Macrurus aerokpis (bottom-bathypelagic species), was made during the 20th cruise of the expedition vessel "Vityaz'" (28 April-14 June 1955) in the areas east of the northern part of Kurile trench, east of the Sanganarskiy strait, in the Japanese trench, in the western sections of the aleutian trench, and west of the island

\* of the USSR

Card 1/2

Zoology Inst, AS USSR

G

USSR

Abs Jour : Ref Zhur - Biologiya, No 22, 1958, No 99537

of Attu. The representatives of the 1st group proved to be parasite free with the exception of one specimen of Gonostoma in which one specimen of the little crab Ler-naeensis sp. was found. Eight species of parasites were discovered in the Macrurus, of which two were larvae of Tetrarhynchidae and Anisakis, identical with those found in Theragra chalcogramma and Pleurogrammus monopterygius, caught in the coastal waters of Kamchatka. The difference in the infectivity of these fish is explained by the difference in their ecology, primarily in their diet and not in the depth of their habitation.

Card 2/2

3

LINDBERG, G.U.; SHCHEDRINA, Z.G.; DOGEL', V.A.; RESHETNYAK, V.V.; STRELKOV, A.A.; KOLTUN, V.M.; NAUMOV, D.V.; IVANOV, A.V.; BYKHOVSKIY, B.Ye. ZHUKOV, Ye.V.; PIERGAMENT, T.S.; KOROTKEVICH, V.S.; USHAKOV, P.V.; KLYUGE, G.A.; ANDROSOVA, Ye.I.; GOSTILOVSKAYA, M.G.; BRODSKIY, K.A.; GUSEV, A.V.; TARASOV, N.I.; GUR'YANOVA, Ye.F.; VAGIN, V.L.; LOMAKINA, N.B.; BULYCHEVA, A.I.; KOBYAKOVA, Z.I.; LOZINO-LOZINSKIY, L.K.; YAKOVLEVA, A.M.; GALKIN, Yu.I.; SKARIATO, O.A.; AKIMUSHKIN, I.I.; D'YAKONOV, A.M.; BARANOVA, Z.I.; SAVEL'YEVA, T.S.; SKALIKIN, V.A.

List of the fauna of marine waters of southern Sakhalin and southern Kuriles. Issl.dal'nevost.mor.SSSR no.6:173-256 '59.  
(MIRA 13:3)

1. Zoologicheskiy institut AN SSSR.  
(Sakhalin--Marine fauna)  
(Kurile Islands--Marine fauna)

SOV-26-58-11-10/49

## AUTHORS:

Arsen'yev, V.A.; Gusev, A.V., Candidates of Biological Sciences.

## TITLE:

The Study of the Flora and Fauna of the Southern Ocean (Izucheniya flory i fauny yuzhnogo okeana). The Second Marine Antarctic Expedition of AS USSR (Vtoraya morskaya antarkticheskaya ekspeditsiya AN SSSR).

## PERIODICAL:

Priroda, 1958<sup>47</sup>, Nr 11, pp 56 - 63 (USSR)

## ABSTRACT:

The Soviet second marine Antarctic expedition (1956 to 1957) had two principal tasks: to take relief personnel and freight to the Mirnyy observatory and to make complex oceanological studies in southpolar waters and the Indian Ocean. This article deals chiefly with the investigations made by the "Ob" research vessel, partly in conjunction with the "Soyya" ice-breaker. The ship's course and the scientific observations are given in detail. There are 12 photos and 1 map.

## ASSOCIATION:

Vsesoyuznyy nauchno-issledovatel'skiy institut rybnogo khozyaystva i okeanografii /Moskva (The All-Union Scientific Research Institute of Fish Economy and Oceanography /Moscow); Zoologicheskiy institut AN SSSR /Leningrad (Zoological Institute of the AS USSR /Leningrad).

1. Marine biology--Antarctic regions

Card 1/1

SOV/20-123-5-20/50

2(9)

AUTHORS: Gusev, A. V., Pasternak, F. A.

TITLE: Some Observations on the Benthic Fauna of Antarctic Waters  
(Nekotoryye zamechaniya o donnoy faune antarkticheskikh vod)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol 123, Nr 5, pp 841-844  
(USSR)

ABSTRACT: The authors first mention earlier expeditions concerning this subject. The authors took part in the first (1955-1956) and in the second (1956-1957) voyage of the Sovetskaya morskaya antarkticheskaya ekspeditsiya (Soviet Maritime Antarctic Expedition) on board the Diesel electric vessel "Ob'". During these 2 voyages of "Ob'", collections of bottom fauna were carried out at 128 stations in depths of from 28 to 5370 m. The water layer down to 100 m was left nearly uninvestigated. The authors took 107 quantitative and 37 qualitative samples by dredging the ground and 25 trawl samples. The results of these 2 voyages already make it possible to draw conclusions concerning the bionomic character of the bottom fauna of the Indian Sector of the Antarctic and the nature of its depth distribution could be detected. The characteristic features of the Antarctic shelf (which are discussed in short) determine

Card 1/3

SOV/2o-123-5-2o/5o

Some Observations on the Benthic Fauna of Antarctic Waters

the properties of its fauna. The names of the species found are listed. There are the following differences between the fauna of the Antarctic shelf and that of the shelf in the northern hemisphere: 1) There is a great number of various groups in the Antarctic shelf, but none of them predominates. 2) The appearance (shape) of various kinds is rather similar. The overwhelming majority of the organisms found in depths of 100-500 m belong to the category of sedentary sestonophagous. In spite of the enormous weight of the total biologic mass of the bentose, their nutritive quality is relatively low because of the high weight of the skeletons of the dominating non-nutrient bentose. The fauna of the Antarctic Ocean is very sparse. There are 1 figure and 5 Soviet references.

ASSOCIATION: Zoologicheskiy institut Akademii nauk SSSR  
(Zoological Institute of the Academy of Sciences, USSR)  
Institut okeanologii Akademii nauk SSSR  
(Institute of Oceanology of the Academy of Sciences, USSR)

Card 2/3

GUSEV, A. V.

"Ways for the Evolution of the Genus *Ancyloides* (Monogenoidea)."

Tenth Conference on Parasitological Problems and Diseases with Natural  
Reservoirs, 22-29 October 1959, Vol. II, Publishing House of Academy of  
Sciences, USSR, Moscow-Leningrad, 1959.

Zoological Institute, USSR Academy of Sciences (Leningrad)

17(15)  
AUTHORS:

Gusev, A. V., Zhukov, Ye. V., Strelkov, Yu. A. Sov/20-125-5-60/61

TITLE:

On the Degree of Infestation of Mintay (Theragra Chalcogramma Pal.)  
With Parasites and Its Use in Fishery (O zarazhennosti mintaya  
parazitami i yego promyslovom ispol'zovanii)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 125, Nr 5, pp 1174-1176  
(USSR)

ABSTRACT:

The natural sources should be opened up to the highest possible extent and an abundant supply of food should be established. Theragra chalcogramma belongs to the hitherto not sufficiently known fish species of the Far East. Many fish species of better taste occur in the Far East, and the afore-said species is, moreover, not liked because of its infestation by parasites. This infestation renders the fish species unappetizing for the consumer and leads to misunderstandings and to the fact that the fish finds no sale. The authors tried to answer the following questions: 1) Is flesh of Theragra chalcogramma infected with parasitic worms?; if this is the case, how far? 2) Are among the parasites of Theragra chalcogramma any species which are harmful to man? 3) Which investigations are to be carried out in order to decide definitely

Card 1/3

On the Degree of Infestation of Mintay (*Theragra Chalcogramma* SOV/20-125-5-60/61  
Pal.) With Parasites and Its Use in Fishery

the problem of the use of *Theragra chalcogramma*? - Table 1 shows the results of the sections in 1951-55 in the region of the zaliv Petra Velikogo ( Petr Velikiy Bay ), Avachinskaya bukhta (Avachinskaya Bay), Kamchatskiy zaliv (Kamchatka Bay), and Kronotskiy Bay. None of the known parasites of *Theragra chalcogramma* is harmful to man. There is no reason for disqualifying entire catches or fishery regions because of infestation of the flesh. Careful sanitary control, the elimination of highly infected fish, furthermore, the removal of infected intestines may easily eliminate parasites in fish for sale. The working process is to be chosen according to the kind of infestation (salting, freezing, hashing, etc.). In order to find out the best time and the best regions for catch, investigations of the age- and seasonal dynamics of parasites have to be carried out. There is assumed that the frequently voiced alarming news from the (Soviet) Far East are not fully justified. It is 1 table.

ASSOCIATION: Zoologicheskiy institut Akademii nauk SSSR (Zoological Institute of the Academy of Sciences, USSR)

Card 2/3

PLATE I BOOK EXTRABLATION

SC/5457

Sovietian Antarctic Expedition, 1955,  
Vorobyov Research Expedition on d/v "Ob" 1955-1957 (Ref.: marine report only;  
(Grand Marine Expedition on the Soviet-Electric Ship "Ob", 1955-57; Cisen-  
tice Report) Leningrad, Murmansk, 1958, 165 p. (Series: 215;  
(Material) no. 1), 1,200 copies printed.

Sponsoring Agency: Hydrobiological and Antarctic Institute.

Sponsoring Agency: Hydrobiological and Antarctic Institute.

Ed. (Title Page): I.V. Vilkitsky, Doctor of Geographical Sciences, Professor;

Ed.: Ye. I. Olsenev; Tech. Ed.: O. I. Kolyadina.

Ed.: Ye. I. Olsenev; Tech. Ed.: O. I. Kolyadina.

PURPOSE: This book is intended for marine geologists and hydrologists.  
 CONTENT: This is a collection of 9 articles on the hydrogeological and geo-  
 logical findings of the Second Soviet Marine Expedition, sponsored by the  
 Arctic and Antarctic Scientific Research Institute of the Ministry of the  
 USSR, during 1955-57, under the leadership of the International Geophysical Year  
 Program. The expedition, conducted on the direct ship "Ob", during 1955-57,  
 covered the entire Indian Ocean and the coast of Antarctica between 0 and 160°  
 east longitude. The present volume, the seventh and last in a series on the  
 east longitude, describes the work of the expedition in investigating the  
 bottom topography of the sea bottom by means of sounding devices;  
 following the geomorphology of the East Antarctic shelves and the  
 geological structure and profile of the collection of bottom borers deposits;  
 the southern part of the Indian Ocean, through the collection of bottom borers of the  
 sea ice-constricton determination of the thickness of the bottom of the  
 analysis of surface and depth suspensions; the relief of the  
 Davis Sea and the area north of it; the Gauss-Kerzenich ultraviolet facies; the  
 continental slope and shelf of Queen Maud Land and Queen Mary  
 Land and 70° south latitude; the geomorphology and qualitative longitudinal  
 zones; glacier variations; seasonal, quantitative and qualitative longitudinal  
 and latitudinal distribution of plankton in the Antarctic sector of the Indian  
 Ocean; marine parasites, including whale, seals, birds, fish, marine parasites,  
 and Antarctic fauna. The articles are written by authors of the Institute  
 of Hydrobiology, AN SSSR; Institute of Geography, AN SSSR; Institute of Geophysics  
 of the Institute of Geography, AN SSSR; Zoological Institute of the  
 USSR (Institute of Oceanology, AN SSSR); Institute of Geophysics, Institute  
 of Fish Diseases and Oceanography. No personalities are mentioned. Each  
 article is accompanied by references.

Article 542

General Marine Expedition. (Cont.)

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AVAILABLE: Library of Congress (250,000)	

GUSEV, A.V.; STRELKOV, Yu.A.

Ancylodiscoides (Monogenoidea) parasitic in catfishes (Silurus and Parasilurus) of the Far East; analysis of the morphology and evolution of the group. Trudy Zool. inst. 28:197-255 '60. (MIRA 13:12)  
(Far East--Trematoda) (Parasites--Catfishes)

DIKHTYAR, Grigoriy Abramovich. Prinimali uchastiye: TORBIN, V.I.; GUSEV, A.V.; GLADKOV, I.A., prof., doktor ekonom. nauk, otv. red.; LUCERINA, A.N., red. izd-va; SHEVCHENKO, G.N., tekhn. red.

[Soviet commerce during the period of the development of socialism]  
Sovetskaia torgovlia v period postroeniia sotsializma. Moskva, Izd-vo Akad. nauk SSSR, 1961. 471 p.  
(MIRA 14:11)

1. Sektor obrashcheniya Instituta ekonomiki AN SSSR (for Torbin,  
Gusev).  
(Russia---Commerce)

GUSEV, A.V.

Viviparous monogenetic trematode from the fresh waters of Africa.  
Dokl. AN SSSR 136 no.2:490-493 '61. (MIRA 14:1)

1. Zoologicheskiy institut Akademii nauk SSSR. Predstavлено akademikom  
Ye.N. Pavlovskim.  
(Parasites—Catfishes)  
(Awusa, Lake, Ethiopia—Trematoda)

GUSEV, A.V.

New subfamily of monogenetic trematodes (Monogenoidea).  
Dokl. AN SSSR 139 no.6:1480-1482 Ag '61. (MIRA 14:8)

1. Zoologicheskiy institut AN SSSR. Predstavлено академиком  
Ye. N. Pavlovskim.  
(Trematoda)

AKHMEROV, A.Kh.; GUSEV, A.V.

Hosts of *Ancyrocephalus subaequalis* Achmerow, 1952. Zool. zhur.  
41 no.6:935-936 Je '62. (MIRA 15:7)

1. Helminthological Laboratory of the Academy of Sciences of the  
U.S.S.R., Moscow and Zoological Institute of the Academy of  
Sciences of the U.S.S.R., Leningrad.

(Amur River--Trematoda--Host animals)  
(Amur River--Parasites--Carp.)

GUSEV, A.V.

Use of borax for the packing of tapping arrangements.  
Metallurg 8 no.2:22 F '63. (MIRA 16:2)

1. Nachal'nik smeny novomartenovskogo tsekha Izhevskogo  
metallurgicheskogo zavoda.  
(Open-hearth furnaces) (Borax)

GUSEV, A.V., kand.biolog.nauk

Symposium on helminths. Vest. AN SSSR 33 no.6:93-94 Je '63.  
(Helminthology) (MIRA 16:7)

GUSEV, A. V.; BYKHOVSKIY, B. Ye.

"Parasites des poissons de l'USSR."

report submitted for 1st Intl Conf, Parasitology, Rome, 21-26 Sep 1964.

Zoological Inst, AS USSR, Leningrad E-164.

BYKHOVSKIY, B.Ye.; GUSEV, A.V.; DUBININA, M.N.

Parasitological factor in acclimatization of fishes and in hydraulic engineering. Paraz. sbor. 22:189-195 '64.

(MIRA 18:2)

1. Zoologicheskiy institut AN SSSR.

L 61582-65 EWT(d)/EED-2/EWP(1) Pg-4/Pg-4/Pk..4 IJP(c) GB/GG  
ACCESSION NR: AT5014717 UEL/0000/65/000/000/0109/0117

AUTHOR: Isayev, V.P.; Gusev, A.V.

25  
B+1

TITLE: Some problems concerning the choice of structure of the address decoder in rapid magnetic memories /60

SOURCE: Operativnyye i postoyannyye zapominayushchiye ustroystva (Rapid and non-volatile storage); sbornik statey. Leningrad, Izd-vo Energiya, 1986, 109-117

TOPIC TAGS: simple matrix sampling, simple linear sampling, linear magnetic decoder sampling, matrix diode-transformer decoder sampling, matrix magnetic decoder sampling, matrix module sampling, matrix half-module sampling, linear diode transformer decoder sampling, address decoder structure

ABSTRACT: The basic requirement imposed on the system of address decoding of a rapid magnetic memory is the maintenance of stable current pulses of information sampling from the storage devices with a maximum number of active elements and a high coefficient of favorable action. The author investigated the advantages and weaknesses of: 1) simple matrix sampling, 2) simple linear sampling, 3) linear sampling with magnetic decoder, 4) matrix sampling with diode-transformer decoder,

Card 1/2

L 61582-65	ACCESSION NR: AT5014717	O		
5) matrix sampling with magnetic decoder, 6) matrix module sampling, 7) matrix half-module sampling, and 8) linear sampling with diode-transformer decoder. Special emphasis was placed on the number of shapers needed for the various possible solutions. The article concludes with general engineering recommendations. Orig. art. has: 5 formulas, 5 figures, and 1 table.				
ASSOCIATION: none				
SUBMITTED: 20Jan65	ENCL: 00	SUB CODE: INF		
NO REF SOV: 000	OTHER: 000			
Card 2/2 <i>MAP</i>				

GUSEV, A.V.

New genus of monogenous trematodes from the eels of the genus  
Anguilla. Trudy Zool. inst. 35:119-126 '65.

Dactylogyrus from the tench Tinca tinca (L.). Ibid.:126-131  
(MIRA 19:1)  
I. Zoologicheskiy institut AN SSSR.

GAVRILOVA, N.G.; GORYAINOV, A.V.; DIMITROV, V.

Dactylogyrus from Capoetabrama kugatakeensis (Tchataler).  
Trudy Zool. inst. 35:132-136. 1965. (A.R.A. 1965)

1. Zoologicheskiy institut AN SSSR; Leninabadskiy gosudarstvennyy  
pedagogicheskiy institut imeni S.M. Kirova, i Institut zoologii  
i parazitologii AN Tadzhikskoy SSR.

BYKHOVSKIY, B.Ye.; GUSEV, A.V.; NAGIBINA, L.F.

Monogenous trematodes of the fam. Tetraonchoididae Bychowsky,  
1951. Trudy Zool. inst. 35:140-166 '65. (MIRA 19:1)

1. Zoologicheskiy institut AN SSSR.

L 11443-67 EWT(d)/EWB(1) LIP(c) GG/BB  
ACC-NR: AT6023933 SOURCE CODE: UR/3220/66/000/001/0074/0086

39

AUTHOR: Gusev, A. V.

ORG: none

TITLE: The physical bases of various test programs for immediate access magnetic storage units [6]

SOURCE: Tsifrovaya vychislitel'naya tekhnika i programmirovaniye, no. 1, Moscow, 1966; 74-86

TOPIC TAGS: magnetic core storage, magnetic core, numeric evaluation, digital computer, computer component

ABSTRACT: The article examines various matters involving numerical and qualitative evaluation of test programs from the standpoint of their effect on storage environment and the electronic equipment of immediate-access magnetic storage units. i.e., the magnetic and electronic parts of these units and information storage. At the present time tests for immediate-access magnetic storage units of some digital computers are compiled without taking the specific structure of these units into consideration, i.e., the parameters of the ferrite cores and the electronic circuits. When tests for these units are compiled the number of shifts of magnetic state from zero or unity to the state determined by the static hysteresis loop, the number of partial

Card 1/2

UDC: 681.142.01

L 11443-67  
ACC NR: AT6023933

access currents to which the cores are subjected ("slots" and "tickles," respectively), and the equiprobability of keeping zero or unity in each digit position must be based on calculations. Correctly compiled tests are ranked by complexity of execution as follows: checks on the electronic part, tests of storage of random information, checks on the magnetic part of the immediate-access magnetic storage unit. These tests are necessary for the built-in control and equipment for independent testing because the former usually covers only the circuits for transmitting information with respect to address and number to disclose errors arising in problem solving, and the latter only checks the simplest recording conditions -- recording and readout at the console. Orig. art. has: 6 formulas, 4 tables, and 4 figures.

SUB CODE: 09,12/ SUBM DATE: none/ ORIG REF: 004/

Card 2/2 1m

GUSEV,A.Ya., inzhener

Winter maintenance of a main highway. Avt.dor.17 no.3:6-7  
N-D '54.

(Roads--Maintenance and repair)

GUSEV, A.Ya., inzhener.

Using blast furnace slag in road construction. Avt.dor.18 no.6:33  
O '55. (Roads--Maintenance and repair) (MIRA 9:2)

GUSEV, Anatoliy Yakovlevich; PAVLOV, Aleksandr Vasil'yevich; BYALOBZHESKIY,  
G.V., redaktor; MAL'KOVA, N.V., tekhnicheskiy redaktor

[Winter maintenance of automobile roads] Zimnee soderzhanie  
avtomobil'noy dorogi. Moskva, Nauchno-tekhn. izd-vo avtotransp.  
lit-ry, 1957. 22 p. (MLRA 10:7)  
(Roads--Maintenance and repair)

BLYAKH, G.I.; GRINMAN, I.G.; GUSEV, A.Ya.

Automatic control of traces of large fractions in rubber compounding  
fillers. Kauchuki rez. 21 no.2:39-40 F '62. (MIRA 15:2)

1. Institut yadernoy fiziki AN Kazakhskoy SSR.  
(Rubber)

TEMNOV, V.; GUSEV, B.

Stand for testing the springs of front suspensions. Avt.transp.  
34 no.4:35 Ap '56. (MLRA 9:8)  
(Automobiles--Springs--Testing)

NIKOLADZE, G., kand. tekhn. nauk; GUSEV, B., assistent

Problems in using nonmetal drainage pipes. Zhil.-kom. khoz. 8 no.12:  
13-14 '58. (MIRA 13:1)

1. Moskovskiy institut inzhenerov gorodskogo stroitel'stva (for Gusev)  
(Water pipes)

GUSEV, B., inzh.

Many-layered Moscow. Tekh.mol. 29 no.10:35-36 '61.  
(MIRA 14:10)  
1. Chlen literaturnogo ob"yedineniya zhurnala "Tekhnika molodezhi."  
(Moscow--Transportation)

GUSEV, B., inzh.

Domes built with crystal-shaped elements. Tekhn.mol. 31 no.5:  
19-21 '63. (MIRA 16:6)

1. Chlen literaturnogo ob"yedineniya zhurnala "Tekhnika molodezhi".  
(Industrial buildings) (Buildings, Prefabricated)

GUSEV, P. A. I VOSKRESENSKIY, P. A.

42525. Gel'mintozy serebristo-chernykh lisits. Autoreferat. Karakule-vodstvo  
i zverovodstvo, 1948, No. 6, S. 70.

GULEV, B. A.

"The Preservation of Heat for Fur-Bearing Animals With Milk Key."  
Cand Vet Sci, Moscow Fur and Felt Inst, 20 Dec 54. (M, 9 Dec 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher  
Educational Institutions (12)  
SO: Sum. No. 556, 24 Jun 55

GUSEV, Boris Aleksandrovich; LEONOVA, T.S., red.; LOGINOV, Ye.I.,  
tekhn.red.

[Preventing diseases and the death of rabbits] Preduprezhdenie  
zabolevanii i otkhoda krolikov. Moskva, Izd-vo M-va sel's.khoz.  
RSFSR, 1959. 19 p. (MIRA 14:1)  
(Rabbits--Diseases and pests)

MOCHAN, S.I., kandidat tekhnicheskikh nauk; PETERSON, D.F., kandidat tekhnicheskikh nauk; GUSEV, B.D., kandidat tekhnicheskikh nauk.

Standstill of water in steam boilers. Energomashinostroenie no.5:1-6  
My '56. (Boilers) (MLRA 9:9)